

Docket No. AUS920000844US1

ABSTRACT OF THE DISCLOSURE

**5 RUN QUEUE OPTIMIZATION WITH HARDWARE MULTITHREADING FOR
AFFINITY**

10 A mechanism is invoked when a run queue is looking
for a thread to dispatch and there is not a thread
currently available. The mechanism checks to see if
15 another logical processor on the same physical processor
is running a thread. If another logical processor on the
same physical processor is running a thread, the logical
processor reduces its priority, allowing the other active
processor to consume all of the resources for the
15 physical processor. The hardware contains a timer which
periodically wakes up the low priority logical thread.
Thus, when a thread becomes ready to dispatch, the
logical processor can raise its priority and run a
thread.

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